

AMENDMENTS TO THE CLAIMS

- 1 (Withdrawn) A dispenser for a liquid crystal display panel comprising:
a syringe for applying a dispensing material to a substrate through a nozzle provided at one end portion thereof;
a cap unit provided at the other end portion of the syringe;
a gas supply unit for supplying a gas to the syringe through a gas pipe penetrating the cap unit;
a valve provided in the gas pipe;
a detecting unit for detecting a residual quantity of the dispensing material remaining in the syringe through a flow amount of gas supplied from the gas supply unit to the syringe; and
a controller for controlling the gas supply unit, the valve and the detecting unit.
2. (Withdrawn) The dispenser of claim 1, wherein the substrate is a thin film transistor array substrate for the liquid crystal display panel.
3. (Withdrawn) The dispenser of claim 1, wherein the substrate is a color filter substrate of the liquid crystal display panel.
4. (Withdrawn) The dispenser of claim 1, wherein the gas supply unit supplies a nitrogen gas (N₂).
5. (Withdrawn) The dispenser of claim 1, wherein the dispensing material is a sealant.
6. (Withdrawn) The dispenser of claim 1, wherein the dispensing material is liquid crystal.
7. (Withdrawn) The dispenser of claim 1, wherein the dispensing material is Ag.
providing a syringe filled with sealant;
preparing the syringe for dispensing;

determining an amount of gas corresponding to a minimum quantity of residual sealant that is enough to ensure a previous dispensing but not enough for a subsequent dispensing;
repeatedly dispensing sealant by supplying intermediate amounts of gas to the syringe;
detecting the amount of the intermediate amounts of gas;
wherein the dispensing is repeated if the detected amount of gas is not more than the determined amount of gas, and wherein the dispensing is not repeated if the detected amount of gas is more than the determined amount of gas.

8. (Currently Amended) A method for detecting a residual quantity of a dispensing material using a dispenser of a liquid crystal display panel comprising:

determining a first flow amount of gas by supplying a gas to a syringe filled with the dispensing material, wherein the first flow amount of gas is the amount of gas necessary for the syringe to be capable of dispensing in response to an additional amount of gas;

determining a second flow amount of gas by supplying the gas to the syringe, wherein the second flow amount of gas is the amount of gas such that the syringe is filled with the minimum quantity of residual dispensing material that is enough to ensure a previous dispensing but not enough for a subsequent dispensing, the second flow amount being divided into predetermined parts;

repeatedly performing dispensings through the syringe filled with the dispensing material by supplying intermediate flow amounts of gas to the syringe;

detecting ~~a third flow~~ the intermediate amounts of gas corresponding to the dispensed amount of the dispensing material in the syringe; and

determining a residual number of ~~quantity of the dispensings material~~ remaining in the syringe by comparing the ~~third flow~~ number of intermediate amounts of gas with the divided parts of the second flow amount of the gas,

wherein the dispensing material is still dispensed if the number of intermediate ~~third flow~~ amounts of gas is less than ~~corresponds to~~ the divided parts of the second flow amount of the gas and the dispensing material is not dispensed if the number of intermediate amounts of gas is equal to the divided parts of the second flow amount of gas.

9. (Cancelled)

10. (Cancelled)
11. (Original) The method of claim 8, wherein the dispensing material is a sealant.
12. (Original) The method of claim 8, wherein the dispensing material is liquid crystal.
13. (Original) The method of claim 8, wherein the dispensing material is Silver (Ag).
14. (Cancelled)
15. (New) A method of manufacturing a liquid crystal display panel, comprising:
providing first and second substrates;
forming a seal pattern on the first or second substrate;
forming a liquid crystal layer between the first and second substrates; and
attaching the first and second substrates,
wherein forming the seal pattern includes the method of claim 11.
16. (New) A method of manufacturing a liquid crystal display panel, comprising:
providing first and second substrates;
forming a seal pattern on the first or second substrate;
forming a liquid crystal layer between the first and second substrates; and
attaching the first and second substrates,
wherein forming the liquid crystal layer includes the method of claim 12.

17. (New) A method of manufacturing a liquid crystal display panel, comprising:
providing a thin film transistor substrate having a common voltage line;
providing a color filter substrate having a common electrode;
forming a Ag dot on either substrate connecting the common voltage line and the
common electrode;
forming a seal pattern on the first or second substrate;
forming a liquid crystal layer between the first and second substrates; and
attaching the first and second substrates,
wherein forming the Ag dot includes the method of claim 13.